

ANH Application Catalog

ELISA

ELISA

ELISA (enzyme-linked immunosorbent assay) is a plate-based assay technique designed for detecting and quantifying soluble substances such as peptides, proteins, antibodies, and hormones. Other names, such as enzyme immunoassay (EIA), are also used to describe the same technology. In an ELISA, the antigen (target macromolecule) is immobilized on a solid surface (microplate) and then complexed with an antibody that is linked to a reporter enzyme. Detection is accomplished by measuring the activity of the reporter enzyme via incubation with the appropriate substrate to produce a measurable product. The most crucial element of an ELISA is a highly specific antibody-antigen interaction.

ANH provides products for supporting ELISA such as ELISA plate, primary antibody, secondary antibody, control antibody etc.

1. ELISA Plate



Corning EIA/RIA polystyrene microplates are suitable for immunoassay. There are Medium Binding (Not-treated) and High Binding surfaces which are hydrophobic, non-treated polystyrene surfaces that bind biomolecules through passive adsorption.

- Medium Binding (Not-treated) surfaces are ideal for large (>20kD), hydrophobic biomolecules and capture approximately 100 to 200 ng IgG/cm².
- High Binding surfaces are designed to facilitate binding of medium (>10kD) and large biomolecules with ionic groups and/or hydrophobic regions. The High Binding surface has capacity to bind up to 500 ng IgG/cm² which makes it ideal for enzyme-linked immunoassay (ELISA).

Brand	Cat. No	Description	Unit/Case	Stock Items
Corning	3590	96-Well EIA/RIA Clear Flat Bottom Polystyrene High Binding Microplate, Individually Wrapped, Without Lid, Non-Sterile	1/Pack, 100/Case	✓
Corning	3591	96-Well EIA/RIA Clear Flat Bottom Polystyrene Not Treated Microplate, Individually Wrapped, Without Lid, Non-Sterile	1/Pack, 50/Case	
Corning	3797	96-Well EIA/RIA Clear Round Bottom Polystyrene Not Treated Microplate, Without Lid, Non-Sterile	25/Pack, 100/Case	
Corning	9017	96-Well EIA/RIA Clear Flat Bottom Polystyrene Not Treated Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	✓
Corning	9018	96-Well Clear Flat Bottom Polystyrene High Bind Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	✓

2. Stripwell



Corning 96-well polystyrene Stripwell™ microplates are designed for in vitro diagnostic assays. The flat bottom strips are designed to easily break apart and are pre-assembled in an “egg-crate” style strip holder that allows each individual well to be positioned back into the microplate once broken.

- Stripwell microplates have 96-well flat bottom polystyrene format.
 - Medium Binding (Not-treated) and High Binding surfaces
- Low volume and standard Stripwell microplates have well volumes of 190 µL and 360 µL, respectively.
 - 1 x 8 strips are designed to fit only one way into the strip holder, eliminating the chance of misorientation.

Brand	Cat. No	Description	Unit/Case	Stock Items
Corning	2481	96-Well Black Polystyrene Medium Binding Low Volume Stripwell Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	
Corning	2482	96-Well Black Polystyrene Medium Binding Low Volume Stripwell Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	
Corning	2483	96-Well Black Polystyrene High Binding Low Volume Stripwell Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	
Corning	2484	96-Well White Polystyrene Medium Binding Low Volume Stripwell Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	
Corning	2485	96-Well White Polystyrene High Binding Low Volume Stripwell Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	

Corning	2572	96-Well Stripwell Egg Crate Strip Holder	5/Pack, 20/Case	✓
Corning	2578	96-Well Strip Ejector	5/Case	
Corning	2580	96-Well Clear Polystyrene High Binding Stripwell Strips, without Frame or Lid, Non-Sterile	200/Pack, 800/Case	✓
Corning	2592	96-Well Clear Polystyrene High Binding Stripwell Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	
Corning	2593	96-Well Clear Polystyrene Not Treated Stripwell Microplate, without Lid, Non-Sterile	25/Pack, 100/Case	

3. Primary Antibody

Primary antibodies are versatile biological reagents used to detect a wide range of antigenic targets. Antibodies against a target of interest are raised in host species such as mouse, sheep, rabbit, rat or goat. The target is often a protein, and is usually from a species different to that of the host. Common target species are human, mouse, rat and veterinary species but can also be viral, bacterial or chemical depending on the area of research.

Our catalogue of high quality monoclonal and polyclonal primary antibodies are suitable for use in numerous applications, including flow cytometry, ELISA, immunohistochemistry, immunofluorescence and western blot. They are available labelled with a variety of fluorescent dyes or proteins including FITC, PE, PerCP and APC, enzymes such as horseradish peroxidase, or biotin for further amplification via labelled streptavidin. Also available without a label, our unconjugated antibodies require a species-specific secondary antibody to enable detection.

Brand	Cat. No	Description	Host	Unit	Application
Nordic & Exalpha	MUB036 6P	Armenian Hamster anti CD27	Mouse	0.1 mg	- ELISA - Flow Cytometry - Immunoprecipitation
Nordic & Exalpha	MUB036 7P	CD15/ Lewis X antigen/ alpha-(1,3)-fucosyltransferase 4	Mouse	0.1 mg	- Flow Cytometry - Immunocytochemistry
Nordic & Exalpha	ABaLFA-B	Chicken anti Bacillus anthracis Lethal Factor A, conjugated with Biotin	Chicken	0.1 mg	- ELISA - Western Blotting
Nordic & Exalpha	ABC3d	Chicken anti Bovine Complement C3d	Chicken	10 mg	- ELISA - Western Blotting
Nordic & Exalpha	AHHg	Chicken anti Human Haemoglobin	Chicken	0.1 mg	- ELISA - Western Blotting
Nordic & Exalpha	ASoyP	Chicken anti Soy Protein	Chicken	0.1 mg	- ELISA - Western Blotting
Nordic & Exalpha	MUB010 9P	Mouse anti actin alpha-cardiac	Mouse	0.1 mg	- ELISA - Immunoblotting - Western Blotting
Nordic & Exalpha	GM-4091	Mouse anti CD14	Mouse	0.2 mg	- Flow Cytometry - Immunofluorescence
Nordic & Exalpha	GM-4011	Mouse anti CD3	Mouse	0.2 mg	- Flow Cytometry - Immunofluorescence
Nordic & Exalpha	GM-4061	Mouse anti CD45	Mouse	0.2 mg	- Flow Cytometry - Immunofluorescence
Nordic & Exalpha	GM-4101	Mouse anti CD65s	Mouse	0.2 mg	- Flow Cytometry - Immunofluorescence

Nordic & Exalpa	MUB205 5P	Mouse anti CD8	Mouse	0.1 mg	- ELISA Flow - Cytometry -Immunocytochemistry
Nordic & Exalpa	MUB034 0S	Mouse anti Cytokeratin 13	Mouse	1 mL	- Immunoblotting - Western Blotting
Nordic & Exalpa	MUB034 3S	Mouse anti Cytokeratin 20	Mouse	1 mL	-Immunocytochemistry - Immunoprecipitation - Western Blotting
Nordic & Exalpa	MUB201 0P	Mouse anti Human CD20	Mouse	0.1 mg	- ELISA - Flow Cytometry -Immunohistochemistry (frozen) - Immunoprecipitation
REPROCELL	09-0006	StemAb SSEA-4 Antibody (Purified), Mouse anti-Human	Mouse	100 µL	-Immunocytochemistry -Flow Cytometry
REPROCELL	09-0010	StemAb TRA-1-60 Antibody (Purified), Mouse anti-Human	Mouse	100 µL	-Immunocytochemistry -Flow Cytometry
REPROCELL	09-0011	StemAb TRA-1-81 Antibody (Purified), Mouse anti-Human	Mouse	100 µL	-ICC analysis -Immunocytochemistry -Flow cytometry
REPROCELL	09-0014	StemAb SSEA-3 Antibody (Purified), Rat anti-Mouse/Human	Mouse	100 µL	-Immunocytochemistry -Flow cytometry
REPROCELL	09-0020	temAb Nanog Antibody (Affinity Purified), Rabbit anti-Mouse/Human	Rabbit	100 µL	-Immunocytochemistry

REPROCELL	09-0021	StemAb Klf4 Antibody (Purified), Mouse anti-Mouse/Human	Mouse	100 µL	-Immunocytochemistry
REPROCELL	09-0023	StemAb Oct4 antibody (Affinity Purified), Rabbit anti-Mouse/Human	Rabbit	100 µL	-Immunocytochemistry -Flow cytometry
REPROCELL	09-0024	StemAb Sox2 Antibody (Affinity Purified), Rabbit anti-Mouse/Human	Rabbit	100 µL	-Immunocytochemistry
REPROCELL	09-0097	StainAlive SSEA-4 Antibody (DyLight 550), Mouse anti-Human	Mouse	100 µL	- ICC analysis

For more products, please visit <https://www.nordicmubio.com/> and <https://www.exalpha.com/>

4. Secondary Antibody

Secondary antibodies are valuable biological tools that are employed extensively in research applications and diagnostic assays. Secondary antibodies are conjugated to reporter molecules, such as enzymes or fluorochromes, which provide a signal that can be detected and measured. They are commonly used in antibody based applications to detect an antigen specific primary antibody that is not already conjugated to a reporter. Applications that may require a secondary antibody include immunohistology, immunofluorescence, western blotting, enzyme linked immunosorbent assays (ELISA), flow cytometry and lateral flow assays. Careful selection of suitable secondary antibodies also allows researchers to perform simultaneous labelling of multiple targets in a single sample.

A diverse range of monoclonal (Mab), polyclonal (PAb) secondary antibodies are available that vary according to the host, in which the antibody was raised. They are also grouped according to characteristics of the primary antibody recognised with respect to animal species, antibody class and region of the antibody. Secondary

antibodies may also be supplied as whole antibodies or as antibody fragments, which can provide technical advantages in some applications.

Brand	Cat. No	Description	Host	Unit	Application
Nordic & Exalpa	ADIG	Chicken anti Dog IgG (H+L)	Chicken	0.5 mg	- ELISA - Western Blotting
Nordic & Exalpa	AHIgGFab	Chicken anti Human IgG (Fab)2	Chicken	0.5 mg	- ELISA - Western Blotting
Nordic & Exalpa	AMIG	Chicken anti Mouse IgG (H+L)	Chicken	0.5 mg	- ELISA - Western Blotting
Nordic & Exalpa	ARIG	Chicken anti Rabbit IgG (H+L)	Chicken	0.5 mg	- ELISA - Western Blotting
Nordic & Exalpa	DAIgy	Donkey anti Chicken IgY (H+L)	Donkey	0.5 mg	- ELISA - Western Blotting
Nordic & Exalpa	GACH/Fab	Goat anti Chicken IgG Fab	Goat	1 mL	-Immunoelectrophoresis
Nordic & Exalpa	GAHu/IgE (Fc)	Goat anti Human IgE (Fc specific)	Goat	1 mL	-Immunoelectrophoresis
Nordic & Exalpa	GAM/Fab	Goat anti Mouse IgG Fab	Goat	1 mL	-Immunoelectrophoresis
Nordic & Exalpa	GAM/Ig	Goat anti Mouse IgG1 IgG2a IgG2b IgG3 IgA IgM (heavy and light chains)	Goat	1 mL	-Immunoelectrophoresis
Nordic & Exalpa	GAR/IgG (H+L)	Goat anti Rabbit IgG (heavy and light chains)	Goat	1 mL	-Immunoelectrophoresis
Nordic & Exalpa	GAM/Ig (GAMD)	Goat Mouse IgG1 IgG2a IgG2b IgG3 IgA IgM IgD (heavy and light chains)	Goat	1 mL	-Immunoelectrophoresis

Nordic & Exalpha	MAHu/IgAc	Mouse anti Human IgA (class specific)	Mouse	0.5 mg	- ELISA Flow - Immunocytochemistry
Nordic & Exalpha	MAHu/IgM	Mouse anti Human IgM (class specific)	Mouse	0.5 mg	- ELISA Flow - Immunocytochemistry
Nordic & Exalpha	R7AG/IgG (H+L)/Bio	Rabbit anti Goat IgG (heavy and light chains) (non Human and Mouse), conjugated with Biotin	Rabbit	1 mL	-ELISA -Immunocytochemistry - Dot blot - Immunoblotting
Nordic & Exalpha	RAHu/IgA (Fc)/TRITC	Rabbit anti Human IgA (Fc specific), conjugated with TRITC	Rabbit	1 mL	-ELISA -Immunocytochemistry
Nordic & Exalpha	RASh/IgM (H+L)/7S	Rabbit anti Sheep IgM (heavy and light chains)	Rabbit	1 mg	-ELISA -Immunocytochemistry - Dot blot - Immunoblotting

For more products, please visit <https://www.nordicmubio.com/>
<https://www.exalpha.com/> and <https://www.reprocell.com/>

5. Control Antibody

Control antibodies are a vital part of assay design and ensure signal detected during antibody-based applications, can be attributed to specific antigen binding, rather than non-specific background staining.

Negative isotype controls function by determining the level of non-specific binding of the primary antibody to target. This is achieved by matching the control antibody host species, isotype, and if applicable fluorochrome, to that of the experimental specific antibody. A matched fluorochrome is required if the experimental primary antibody is directly conjugated. Negative control antibody is deliberately generated against a chemical or target not expressed by the cell or tissue of interest, so any binding will be non-specific in nature. This non-specific binding is most frequently

caused by Fc receptors expressed on the surface of the target sample. These receptors bind the antibody's Fc region independently of their Fab epitope binding domains.

Control antibodies are most commonly used in flow cytometry or immunohistochemistry to determine levels of background staining, but can also be utilized as blocking agents before addition of primary antibody.

Brand	Cat. No	Description	Host	Unit	Application
Nordic & Exalpha	FShAHu/IgG(Fc)/TRITC	Bovine IgG	Bovine	100 mg	- Reference antigen - Calibrator - Coating protein - Blocking agent
Nordic & Exalpha	GIgG	Goat IgG	Goat	100 mg	- Immunoassays
Nordic & Exalpha	GpIgG	Guinea Pig IgG	Guinea Pig	10 mg	- Immunoassays
Nordic & Exalpha	MonIgG	Monkey (Rhesus) IgG	Monkey	10 mg	- Reference antigen - Calibrator - Coating protein - Blocking agent
Nordic & Exalpha	0G11	Mouse IgG1 Negative Control	Mouse	100 µg	- Flow Cytometry
Nordic & Exalpha	IgY-010	Normal Chicken IgY (egg-derived)	Chicken	10 mg	- ELISA - Western Blotting
Nordic & Exalpha	DIgY-010	Normal Duck IgY (egg-derived)	Duck	10 mg	- ELISA - Western Blotting
Nordic & Exalpha	GIgY-010	Normal Goose IgY (egg-derived)	Goose	10 mg	- ELISA - Western Blotting
Nordic & Exalpha	OIgY-010	Normal Ostrich IgY (egg-derived)	Ostrich	10 mg	- ELISA - Western Blotting
Nordic & Exalpha	QuIgY-010	Normal Quail IgY (egg-derived)	Quail	10 mg	- ELISA - Western Blotting

Nordic & Exalpha	TIgY-010	Normal Turkey IgY (egg-derived)	Turkey	10 mg	- ELISA - Western Blotting
Nordic & Exalpha	RIgG	Rabbit IgG	Rabbit	100 mg	- Immunoassays
Nordic & Exalpha	RaIgG	Rat IgG	Rat	10 mg	- Immunoassays
Nordic & Exalpha	ShIgG	Sheep IgG	Sheep	100 mg	- Immunoassays
Nordic & Exalpha	SwIgG	Swine IgG	Swine	100 mg	- Immunoassays

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